# In Re: BALLARD MINE CLEANUP

# PUBLIC HEARING April 11, 2018

T&T Reporting, LLC 477 Shoup Avenue, Suite 105 Idaho Falls, Idaho 83402

Min-U-Script® with Word Index

## **PUBLIC HEARING - April 11, 2018**

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8	PUBLIC HEARING
9	BALLARD MINE CLEANUP
10	Wednesday, April 11, 2018
11	6:30 P.M.
12	Soda Springs City Council Room
13	Soda Springs, Idaho
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16	BE IT REMEMBERED that the hearing was taken
17	at the Soda Springs City Council Room, located at 9
18	West 2nd South, Soda Springs, Idaho, before Lanice M.
19	Lewis, Court Reporter and Notary Public, in and for
20	the State of Idaho, in the above-entitled matter.
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1 (The hearing proceeded at 6:30 as follows:)

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### PROCEEDING

#### QUESTIONS AND ANSWERS

- Q. Dave, was any of the groundwater or surface water reaching or has reached the Blackfoot River and if it has, is that a concern?
- 7 Α. We put a whole series of monitoring wells -- I wish, I could -- okay. So it's a big 8 9 site, and it's about a mile, this site is about a mile from the Blackfoot River, and we've drilled a 10 whole bunch of monitoring wells on basically every 11 side of the site, including a whole bunch of wells 12 13 between the southwest portion of the site and the Blackfoot River. 14

And it appears that there's a plume of contaminated groundwater, shallow contaminated groundwater, that's approaching the Blackfoot River. But the concentrations in that plume decrease pretty rapidly before it actually gets to the Blackfoot River.

So, you know, I don't -- it doesn't appear -- there doesn't appear to be an impact to the Blackfoot from that plume, but it's something that we still need to address as part of the final remedy.

Q. Thank you.

- Q. David, surface water samples within the Blackfoot both upstream and downstream of where that plume would be intersecting have shown there is no impact to the Blackfoot or has been none. There's no elevated levels found in the Blackfoot.
  - A. No, that's right.

- Q. Dave, part of the -- it's obvious that part of the solution here is the effectiveness of the reactive barrier in some of the engineered wetlands specifically in removing selenium. Do we have a lot of examples of where that has worked --
- A. Well, I would say a couple of things: I guess, No. 1, I think the most important part of the remedy is the cover system. It's not the PRB's or the wetland treatment cells. We think long term the cover system is the main element of the remedy that's going to control releases to groundwater and surface water.

And the PRB's and the wetland treatment cells might only be a temporary thing for a number of years while the cover matures and becomes more fully effective.

But to answer your question about -- you know, these are -- these are demonstrated technologies that are used at mining sites in various

places in the west. And, for example, PRB's Monsanto has significant experience with PRB's at the South Rasmussen site. And you've probably seen that data, but that data shows that that technology works really well in these kinds of conditions.

The wetland treatment cells, we haven't done like a full-scale pilot of that system at the Ballard Mine, but there are other sites in the west where they found that those sorts of treatment technologies work really well.

- Q. If I could follow-up, so I have seen wetland treatments up in the Silver Valley dealing with mine pivots. Are these similar to those?
- A. I'm not familiar with them. I haven't looked at the data from those sites. But we'll be going through some design work and coming up with designs that are pretty specific that we think will work for the contaminants that we have and the flow rates that we have. All those things need to be figured out and sorted out during the design phase.
- Q. Tell me about this selenium that's already went out across the ground. What's -- it's there forever?
- A. Well, in the surface water and sediment,
  yes. So there have been releases of -- I mean, you

know, water's been flowing off that site since they closed Donman and moved on to Henry in 1969.

And so there's been 50 years of releases from this site to the environment. Water kind of flowing off the mine dumps and into those intermittent streams that are on the margins of the site. Those that run off carries contaminated particles into those water sheds.

There have been releases to shallow groundwater for 50 years from that site, and those are shown in those contaminated plumes that move off to the east and to the southwest. And the constructed components of the remedy are going to control future releases from the site, but there is still a mass of selenium in the groundwater that's already moved off the site. There's still a mass of selenium in like sediment that's been deposited in those intermittent drainages downstream of the site.

and preventing new releases from occurring that over time there will be dilution and dispersion and, you know, basically mixing of, you know -- the sediment is going to -- the contaminated sediment in those intermittent streams is going to wash out over time and disperse over time to a level that we think will

meet RI space cleanup levels.

- Q. But it's time. I've been told it's like a John Deere tractor sitting in a pasture.
- A. Well, you know, we don't have a -- we don't have, like, a hard and fast number. But I'm thinking, based on my experience a number of decades, it's not going to happen overnight. It's not going to happen in a few years. It's going to happen over a period of decades.

And the same with -- you know, the same with groundwater. There's a mass of selenium in that shallow groundwater to the east of the site and to the southwest of the site that's going to -- that's already there. It's not going to be corrected by the PRB's. It's already beyond where we've thought about putting PRB's.

But water that enters the aquifer from the surface or clean water that enters it is going to dilute and disperse that selenium. We think it will reach cleanup levels or MCL's within a -- we're just not sure. It might be -- it might be years to decades.

And so I mean it's likely that we'll put land use controls on those downstream areas. For example, restrictions on drilling wells for people

to, you know, pump water out of those contaminated aguifers until we reach our cleanup levels.

- Q. Do you know how deep it's gone through your testing? Does it get in the deep groundwater? Is it just all surface or more?
- A. I'm going to maybe ask Tim to help answer that question. But I just don't remember -- I mean, the alluvial aquifer I believe is contaminated as deep as we -- I mean, the alluvial aquifer isn't that deep to start with. And we've sampled it at different levels, and it's contaminated.

But my understanding is that the aquifer below the shallow aquifer, the Dinwoody is not impacted above MCL's. We have some wells into the Wells Formation near the West Ballard Pit. I think we've got three or four wells into that deeper aquifer. And that shows impacts that appear to be isolated to that corner of the site. And I think -- we think that this cleanup approach is going to shut off the delivery of new contaminants to that deeper aquifer.

And the stuff that's already in there will dilute and disperse over time and will reach MCL's in the deeper Wells Formation.

Q. Okay.

- A. Does that answer your question?
- Q. It does. Thank you.

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- A. Anything you wanted to add, Tim?
- A. No, I think you hit it. You know, the alluvial aquifer, the contamination is pretty much gravel in the alluvial aquifer. And it's sand and gravel. You know, it's covered with both materials so we can't even say it's a preferential pathway.
- Q. What is Woody? What do you call it, Woody Din?
- A. It's the deeper, the bedrock rock that's formed underneath the alluvial. You know you can't monitor it. And I don't think it says -- to the aquifer. I think it's more permeable. And so the preferential pathway again it's going to give you the shallow alluvial aquifer --
  - Q. And Tim --
  - A. -- and we can't monitor it.
- 19 -- the other thing I remember is the Q. deeper aquifer underlying the alluvial has a positive 20 hydraulic gradient and so water wells up out of it. 21 That's where we get some of our springs. And so 22 23 that's eliminated downward migration of any of the 24 selenium. It's limited it to the alluvial aguifer, 25 too, from what I remember.

9 We have drilling that shows in those 1 Q. deeper zones that you're talking about they do not 2 show the contamination --3 4 Α. Right. -- you're talking about in that alluvial 5 Q. 6 layer. 7 And a positive head --Α. 8 0. Yeah. 9 -- higher, so... Α. 10 MS. MORRISON: Thank you. More questions? 11 MR. TOMTEN: What I would propose we do then 12 is move into the hearing. If people think of 13 questions afterwards, we're going to be around after the close of the formal hearing where the transcript 14 15 is taken. 16 And we'll -- we're happy to answer questions after that, or my phone number and Mike's 17 18 phone number is on the fact sheet. Feel free to call us whenever you want, and we'll do our best to answer 19 20 your questions. I think that's great. 21 MS. MORRISON: one last time, any more questions before we start the 22 23 formal part of the hearing?

convened on Wednesday, April 11th, 2018 in the Soda

Okay.

For the record this hearing is

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Springs' Town Hall. The time is 6:45 p.m. The purpose of this hearing is to listen to your thoughts on EPA's Proposed Plan for the cleanup of the Ballard Mine site.

EPA will respond to comments received during the 30-day comment period running from April 2nd, 2018 through May 1st, 2018 in the written response to comments document.

All comments received during this period will be considered before a final decision is rendered. During this hearing, we will listen carefully to your comments and we will not respond. Your comments will be recorded and the transcript will be available on the EPA Web site.

When you're ready to give your comment, please raise your hand. When I call on you, please stand and say and spell your name so that Lani can transcribe it and then state your comment.

When you're done speaking and you sit down, I'll call on the next speaker. Who would like to give a comment? We can wait. Let's give it a couple more minutes just in case somebody comes up with something. And remember that all comments are considered equally so if you do want to give a comment and you don't want to say it out loud, that's

1	fine. You can certainly send it and we will value it
2	and appreciate it.
3	Okay. Seeing that no one else wishes to
4	give comment, I formally close this hearing for the
5	Ballard Mine Proposed Plan at 7:50 p.m. Thank you
6	all so much for your time, and your contributions.
7	If anyone 6:50, sorry. We did not
8	spend an hour and ten minutes sitting and waiting.
9	And, you know, since we're all still here, if you
10	want to ask more questions, you know, I think this is
11	still a good time to do it. So please don't hesitate
12	to ask more questions and we've still got Dave and
13	all the crew.
14	Okay. Thanks, folks. Please feel free
15	to mill around and you can ask questions individually
16	and thanks again, I really appreciate you coming.
17	(The hearing concluded at 6:50 p.m.)
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			1	April 11, 2018
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